# Sedl
# PROD
# O
# ALUM
# BRC
# STEEL

★
HOME OF
Sealuxe
PRODUCTS
*Miracles in Metals*
★
THE SIX DIVISIONS OF UNIVERSAL CORPORATION
1 BUILDING PRODUCTS
2 THEATRE
3 METAL FINISHING
4 CONSUMER GOODS
5 BROKERAGE DISTRIBUTORS AND JOBBERS
6 GOVERNMENT
★


Universal CORPORATION

BRANCH OFFICES
WASHINGTON, D. C.
DAYTON, OHIO
[redacted]
DES MOINES, IOWA

J. P. TRAVIS
PRESIDENT

P. O. BOX 7225
6710 DENTON DRIVE
DALLAS 9, TEXAS
PHONE LOGAN 6-5621


To Our Friends:

We're sending you this enclosure with the thought that it may contain information of particular interest to you.

Cordially,

UNIVERSAL CORPORATION

J. P. Travis

J. P. Travis,
President

fp

WIRACLES IN METALS

UNIVERSAL
HOME OF Sealuxe PRODUCTS
CORPORATION

**Sealuxe**

**WINDOWS**

**Engineered, Custom Built**

**Browne Folding Type Casement**
**Double Hung**
**Side-Hinged Casement**

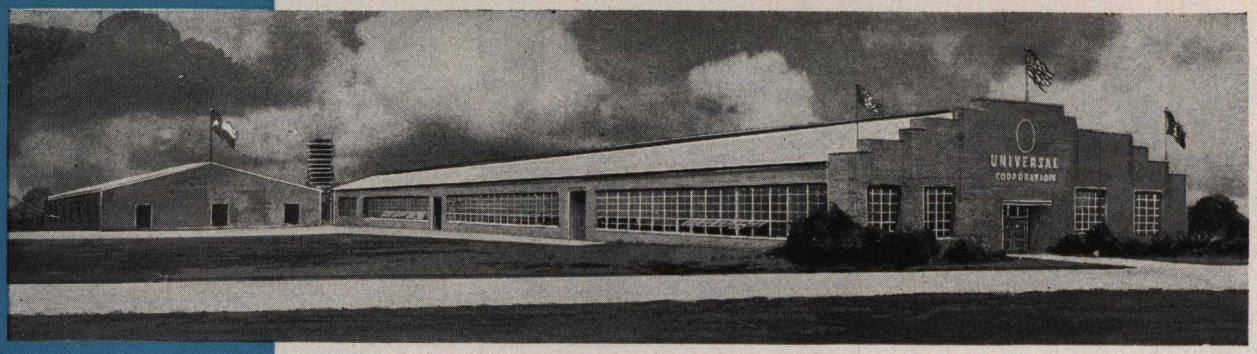
**Sealuxe**

***Commodity Windows***

**Browne Folding Type Casement**
**Double Hung**
**Side-Hinged Casement**

Universal CORPORATION

BS LINFOOT




## DIVISIONS

**Building Products**
- Windows
- Store Fronts
- Doors
- Architectural Metals
- Accessories

**Theatre Equipment**
- Display systems
- Complete theatre fronts
- Marquee facias and letters
- Ticket booths
- Lobby posts
- Miscellaneous

**Metal Finishing**
- Alumiliting (plain and colored)
- Cadmium plating
- Chrome plating
- Anodizing
- Parkerizing
- Metalizing
- Copper brazing
- Enameling, etc.

**Consumer Goods**

Several items, some practically ready for production, are under consideration by the planning and designing departments.

**Manufacturers' Sales Agency**

A few carefully selected manufacturers whose products and service are outstanding will be represented by us on a sales agency and/or jobbing basis.

TCAT 193?
Universal
ocn 85280 2281
7/13/13

# *We Are Ready Now to Speed Your Building Program with Sealuxe Commodity Windows*

Having won its laurels as a prime contractor of fighting materials in World War II, the Universal Corporation emerges as a prime supplier to the nation's building trades, of modern, extruded aluminum and bronze windows, doors, and other architectural metal products.

For twenty years the present makers of Sealuxe and Browne Windows have been known as contract manufacturers who have designed and manufactured deluxe metal windows for hundreds upon hundreds of America's finest office buildings, schools, hospitals and other monumental and industrial structures.

Today, Universal Corporation is in position not only to manufacture the nation's finest engineered windows of aluminum and bronze for the monumental type of building, but to supply Sealuxe Commodity Windows in volume to qualified dealers and distributors who will stock these maintenance-free, finely engineered windows for residence, commercial and industrial installation.

Write for our dealer and distributor plans; give full information as to your sales and warehousing facilities, territory covered and anticipated needs.

J. P. Travis,
*President*

Universal
CORPORATION

6710 DENTON DRIVE — DALLAS 9, TEXAS

"Miracles in Metal"

MEMBERS: NATIONAL ASSOCIATION OF ORNAMENTAL NON-FERROUS METAL MFGRS.
ALUMINUM WINDOW MANUFACTURERS' ASSOCIATION

**Call on our staff for Research, Planning, Design**

Extruded Aluminum

# Sedluxe WINDOWS

Extruded Bronze

## ENGINEERED

### Standard Sizes and Custom Built
### Sold Through Qualified Agents


BROWNE FOLDING TYPE ..... Pages 4-13
- Model 10—Monumental ..... Pages 10-11
- Model 15-P—Psychiatric ..... Pages 12-13
- Model 20-U—Underwriters' (Steel) ..... Page 7

DOUBLE HUNG
- Model 30 ..... Pages 14-15
- Model 31 ..... Pages 16-17
- Model 32 ..... Page 21

SIDE-HINGED CASEMENT
- Model 40 ..... Pages 18-19
- Model 41 ..... Page 20

HARDWARE — ACCESSORIES ..... Page 22

THEATRE PRODUCTS ..... Back Cover

ARCHITECTURAL METALS ..... Back Cover

METAL FINISHING ..... Back Cover

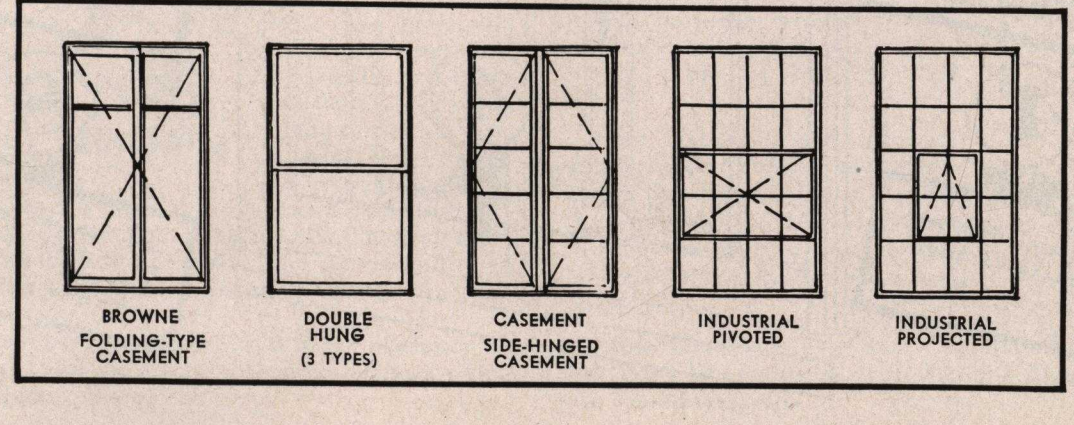

## COMMODITY WINDOWS

### Standard Sizes for Resale by Dealers


BROWNE FOLDING TYPE
- Model 9—Commodity ..... Pages 10,18

DOUBLE HUNG
- Model 32—Commodity ..... Pages 16,18

SIDE-HINGED CASEMENT
- Model 40—Commodity ..... Pages 18-19


**Universal Corporation, 6710 Denton Drive, Dallas 9, Texas**

Sealuxe WINDOWS

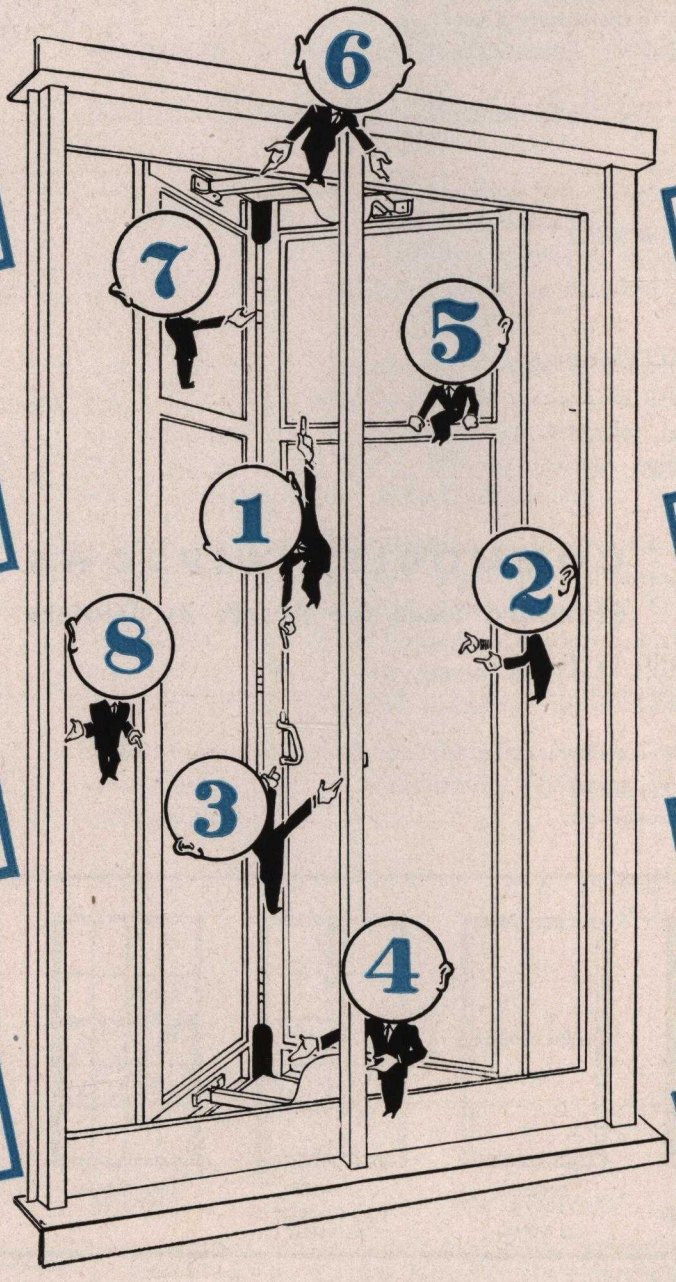
# BROWNE FOLDING TYPE

## Custom Built of Extruded Aluminum, and Extruded Bronze . . . for every type and size building

**Every Sealuxe-Browne Ventilating System has the same features that have made Browne Windows so widely used. Browne Windows are the best window investment for—**

**Public Buildings**
**Institutional Buildings**
**Office Buildings**

**Department Stores**
**Hotels and Apartment Buildings**
**Municipal Buildings**




1. Sash can be slightly bowed open to form a flue that creates draft-free ventilation.

2. Eliminate professional window washers. Both sides of glass can be cleaned from roomside.

3. Sash is manually operated or equipped with concealed mechanical operators. Windows can be geared together for remote operation.

4. Rigid center upright supports concealed hinged arms.

5. No muntins are necessary but can be built in any arrangement.

6. Concealed hinge arms and operating mechanism, giving rigidity.

7. Permanent wool felt weather-stripping on entire perimeter of sash makes an air tight window.

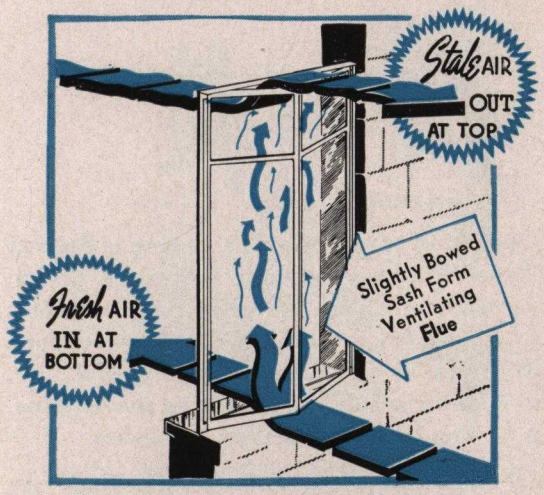
8. Sash instantly and easily set at width opening desired, and will not move under wind pressure.

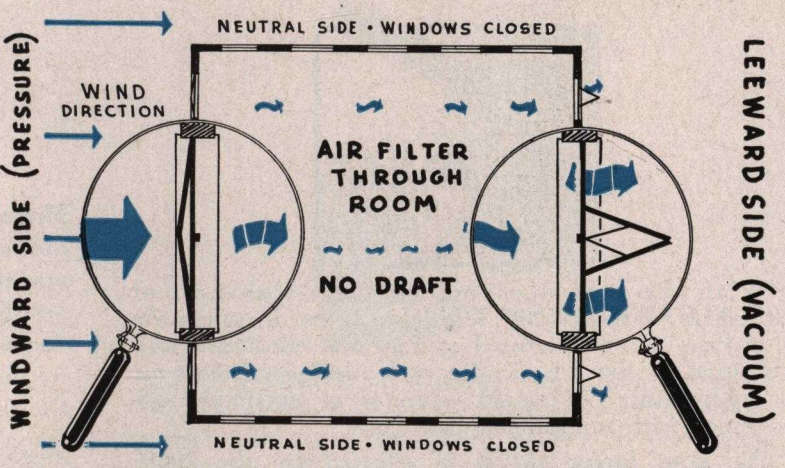
***Now Manufactured Exclusively by . . . .***

# BROWNE FOLDING TYPE

Sealuxe WINDOWS

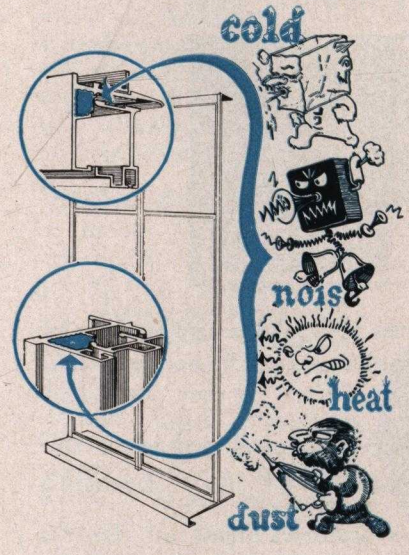
## 100% controllable ventilation without drafts




The SEALUXE-BROWNE Folding Type Window is the only window with which it is possible to have draft-free ventilation in practically any weather. The center-hinged sash members open outwardly, and when bowed open 6 to 8 inches form a "V" flue that accelerates the intake of fresh air at the bottom and exhaust of foul air at the top. The result is ideal changing of air . . . perfect ventilation without draft. No wind deflectors required.

Even when there is a heavy wind SEALUXE-BROWNE Windows can be bowed slightly open on the wind-ward side, opened full on the leeward side, providing constant circulation of refreshing clean air . . . without a draft.



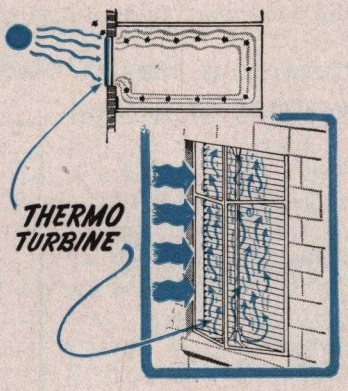

### The most airtight window made

Important savings in the operation of air conditioning equipment and heating plant result from the weather-tightness and controllable ventilation feature of SEALUXE-BROWNE Folding Type Windows. The finest permanent resilient wool felt is built into these windows. The sash members fold open, do not slide open, and when closed have direct metal-to-felt contact . . . forming a positive seal against air leakage . . . no rubbing metal at any point. The sash members fit accurately and permanently, as there is no necessity for providing tolerances for easy operation.

Outside noises, that disturb and lower efficiency of office workers and occupants, are subdued to a point that they are not distracting.

### Western exposures need not be "stepchildren" rooms or offices

In office buildings, hotels, schools, the home, or other types of buildings, there is the problem of keeping western exposures comfortable. The ventilating features of the Sealuxe-Browne Window do something for the western exposure of a building which cannot be obtained in other types of windows.




The afternoon sun shining on the conventional type window creates unbearable temperatures. However, the sun hitting a Browne Window sets up a Thermo-Turbine activated circulation in the "flue" formed by slightly bowing the sash that accelerates air movement in the room to a degree that lowers temperature.

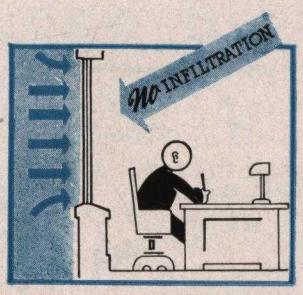
This feature is even more pronounced when the windows are equipped with Sealuxe Thermo Shades or Venetian blinds.

**Universal Corporation, 6710 Denton Drive, Dallas 9, Texas**

Sealuxe WINDOWS

# BROWNE FOLDING TYPE

## Browne windows pay big dividends in air conditioned buildings




With the laboratory-checked air-tightness of SEALUXE-BROWNE Windows there is minimum leakage of manufactured cold air and minimum infiltration of hot air. Under such ideal conditions air conditioning equipment operates at maximum efficiency with minimum power cost.

An even larger saving is effected by the 100% No-Draft Controllable Ventilation features of the SEALUXE-BROWNE Window which make unnecessary continuous operation of air conditioning equipment.

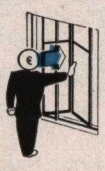
During a large portion of each year, nature provides weather that is more perfect than man can manufacture. Full advantage can be taken of such natural weather with the ventilation features of Browne Windows, without the aid of mechanical air conditioning.

While no claim is made that the Browne Window will under all conditions provide mechanical conditioned air temperatures, it is conservative to say that it is the next best thing to an air conditioning system.

## Hazardous, costly window washing eliminated

The outside as well as the roomside glass in a SEALUXE-BROWNE Window can be reached from inside. Consequently, the high cost, including insurance, of professional window washers, working outside, is saved. A maid or porter can wipe or dust both sides of the glass once or twice weekly to keep windows bright and shiny.

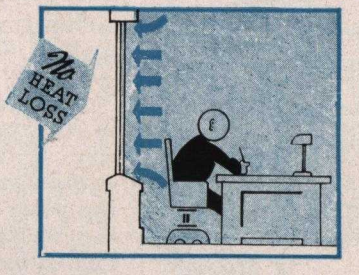
## Operating a SEALUXE-BROWNE Window is effortless and simple



**Manual Operation** • Opening or closing a Browne Folding Type Window does not require a person reaching or bending past the sill. Sash members are firmly hinged together at the center to open (outwardly) and close, instantly and easily . . . nothing to stick or break . . . no lifting nor tugging. Closing is a simple and effortless operation.

**Mechanical Operation** • Browne Windows are equipped, when ordered, with concealed mechanical operators, having either detachable or permanent handles. Batteries of windows can be geared together and operated by remote control, even to the extent of operating from lower or upper floors.

## Air-tightness eliminates heat losses . . . lowers heating cost




The positive seal against air leakage and infiltration of cold air results in major savings in heating.

## SEALUXE-BROWNE windows enhance the symmetry and beauty of any building

Open or closed, Browne Windows blend into the trim lines of modern buildings. There is no irregular appearance, no sash that stick out at varying angles. No dark spots caused by open ventilators.

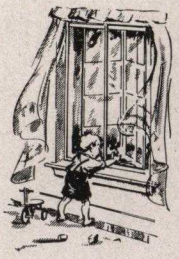
Compare the symmetrical appearance of any building equipped with Browne Folding Type Ventilators with a building equipped with any other type of window.

***Better values in better windows for better buildings***

# BROWNE FOLDING TYPE

Sealuxe WINDOWS

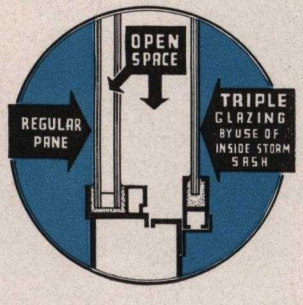
## Prowler-proof—protection with ventilation



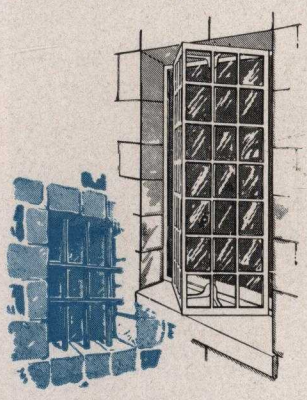
The prowler-proof model affords positive protection against unlawful entry . . . provides safety against children and others falling out or getting out. These prowler-proof windows are arranged to open five to seven inches at jamb, permitting ventilation, but an opening too small for entry. Muntins are so arranged that breaking of glass does not leave opening large enough for even a child to crawl through. Prowler-proof BROWNE Windows afford as positive protection as any type of window guard, but they have all the beauty of a window without the guard being apparent. Also affords wholesome ventilation in foulest of weather.

## Single, double or triple glazing

A better understanding of thermal heat and its transfer is bringing an increased demand for multiple glazing. Double or triple glazing provides effective insulating dead air space. At small additional cost, sash can be double glazed. Triple glazing is obtained by the use of an integral storm sash on the inside. Storm sash are hinged at side for easy cleaning and also to permit opening of window sash either manually or with mechanical operators.




## Safety windows for Psychiatric Institutions



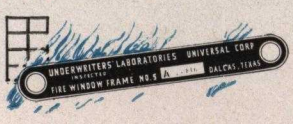
SEALUXE-BROWNE Folding Type Windows make window grilles and guards unnecessary. The safety models give every safe-guard needed in psychiatric institutions. Modern institutions eliminate that "jail appearance" that is so obvious when window bars or grilles are used.

Inmates in psychiatric institutions, when Browne Psychiatric Windows are used, are never depressed by the feeling that outsiders recognize that they are confined. Outstanding authorities and doctors of these institutions realize the importance to the inmates of eliminating the prison appearance. Browne Psychiatric Windows are operated by concealed mechanical operators and can be locked open or closed, or can be operated by remote control.

## Integral windows and window guards combined for the jail

BROWNE Folding Type Windows eliminate the need of outside bars or grilles. No longer need the jail section of a courthouse or a City Hall be a "sore thumb" part of the building. The Browne Windows in the jail section are not noticeably any different from the Browne Windows in the other sections of the building. Inside guards can be used with Browne windows where deemed necessary for store rooms or jails, in which case the window is mechanically operated. In this case, the Browne Window supplements and gives double protection without detection. When inside guards are used, they do not show up from the outside as the ventilators can be restrained, giving flue type ventilation and ample circulation of fresh air.

## Fireproof (Underwriters' Label) windows




The SEALUXE-BROWNE window will be made in steel to meet Underwriters' requirements, cadmium plated to match adjoining aluminum windows in appearance. Send for details.

***Universal Corporation, 6710 Denton Drive, Dallas 9, Texas***

Sedluxe
WINDOWS

# A few of the prominent buildings having

*Left:* **Milam Building**
San Antonio, Texas

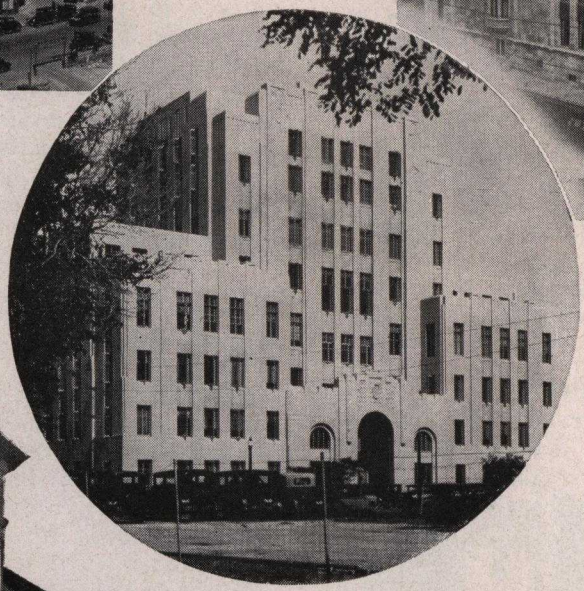
*Owners:* Travis Investment Co.

*Architects:* Geo. Willis
San Antonio, Texas

*Contractor:* L. T. Wright Co.
San Antonio, Texas

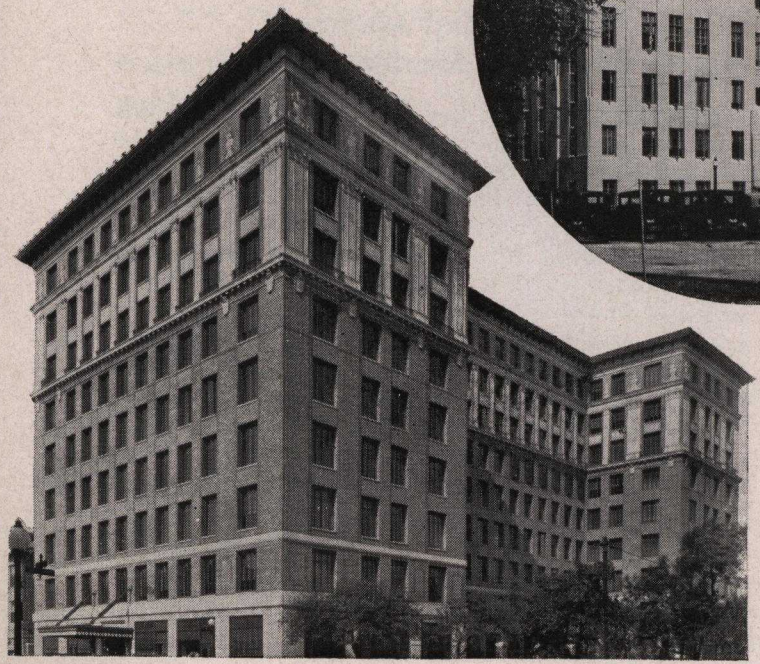
*Right:*
**Stuart Building**
Lincoln, Nebraska

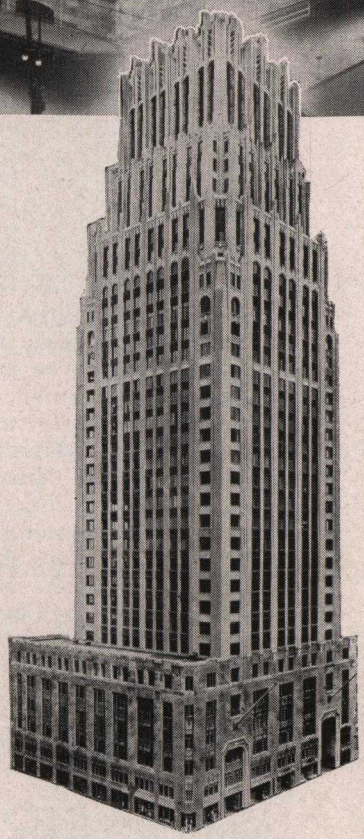
*Architects:*
Davis & Wilson
Lincoln, Nebraska



*Below:* **Humble Building**
Houston, Texas

*Architects:* Clinton and Russell
Houston, Texas





*Above:* **Potter County Courthouse**
Amarillo, Texas

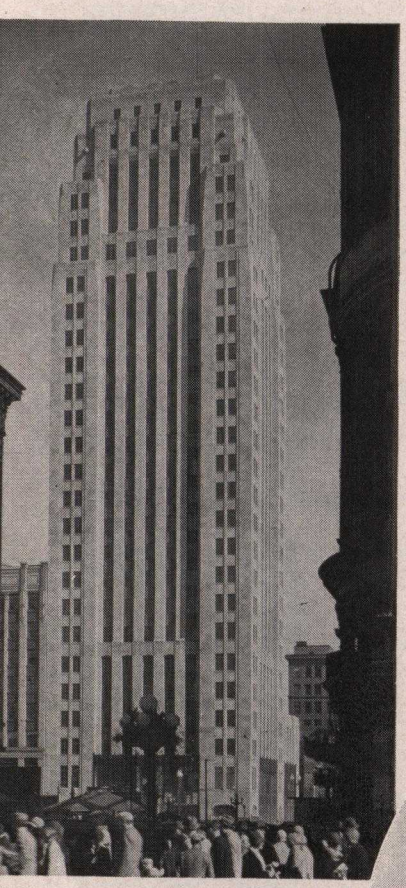
*Architects:* Townes, Lightfoot & Funk
Amarillo, Texas

*Right:* **Gulf Building**
Houston, Texas

*Architects:* Alfred C. Finn
Kenneth Franzheim
& J. E. R. Carpenter
Houston, Texas

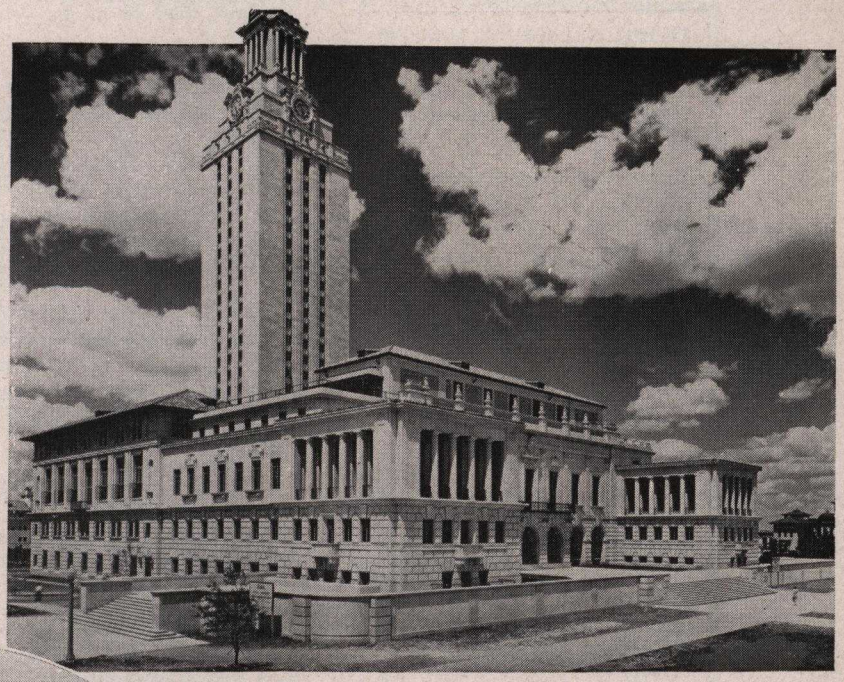
# BROWNE window installations

Sedluxe WINDOWS



*Left:* **Rand Building**
Minneapolis, Minn.

*Architects:*
Holabird & Root
Chicago, Ill.



*Right:* **Main Building and Library Univ. of Texas**
Austin, Texas

*Architect:*
Paul P. Cret

*Associate Architects:*
R. L. White &
Herbert M. Greene,
LaRoche & Dahl

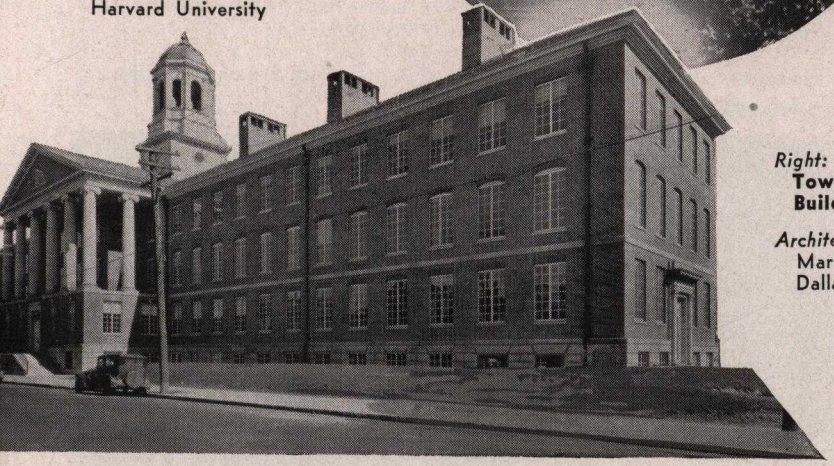
*Contractors:*
W. S. Bellows
Const. Co.

*Right:* **Okla. County Courthouse**
Oklahoma City, Oklahoma

*Architects:* Layton and Forsyth
Oklahoma City, Okla.

*Contractors:*
**Manhattan Const. Co.**
Okla. City, Okla.

*Below:* Edward Mallingkrodt Laboratory
Harvard University



*Right:*
**Tower Petroleum Building**

*Architect:*
Mark Lemmon
Dallas, Texas

***Universal Corporation, 6710 Denton Drive, Dallas 9, Texas***

Sedluxe WINDOWS

# BROWNE FOLDING TYPE
## models 9 and 10

BROWNE FOLDING TYPE WINDOWS

•

**MODEL 9**

For residence and commercial use, standard sizes; sold through dealers. Send for Drafting Room Standards, Sheet 2.

•

**Model 9—Commodity Window**

A deluxe Browne Folding Type Casement Window in every respect, of slightly lighter construction for residence and commercial installation. Sold through dealers. Send for Drafting Room Standards, Sheet 2.

•

**MODEL 10**

Drafting Room Standards, Sheet 1. Shows detail of construction used for windows under 5'0" x 6'9". For companion window over 5'0" x 6'9", state approximate size in sending for Drafting Room Standards.

•

**MODEL 15-P**

Drafting Room Standards, Sheet 3. Psychiatric • Safety • Prowler-Proof Fixed stops at sill and head to limit opening at jamb, preventing escape of patients.

STANDARD EQUIPMENT: Sill operator concealed under metal stool (steel), loose crank for opening and closing of window by attendant.

Fixed stops can be arranged, two at head and two at sill, at Architect's desire, for

1. Safety Type Window.
2. Unit or Integral Window and Window Guard Combined.

Muntin arrangement optional.

•

MAXIMUM VENTILATOR

Model 10

Width: Under.....5'0"
Height: Under.....6'9"

Model 10 (Companion)

Width: Over.....5'0"
Height: Over.....6'9"

•

ACCESSORIES

Specify carefully items desired, such as:

MECHANICAL OPERATORS — for openings out of reach of the floor; SCREENS — attached to ventilator where desired; STOOLS — Metal or Extruded Aluminum, can be supplied where desired; SEALUXE SPANDRELS —Rolled Aluminum, can be furnished with air intake vents for ventilating air conditioning systems; MULLIONS— where two or more windows are to be installed in a single opening, provision shall be made to assemble the abutting frame members into a structurally satisfactory vertical mullion.

•

SEALUXE EXTERIOR THERMO SHADES —can be furnished with mechanical operation controlled from the inside.

•

EXTERIOR TRIM AND SPANDRELS

Should be furnished, erected, and caulked by window manufacturer or his authorized representative, or by workmen skilled in this type of work and in accordance with written instructions issued by the window manufacturer.

•

ALUMILITING

Windows may be alumilited in either a satin finish or a polish finish.

**Senior High School**
Ft. Worth, Texas

*Architect:* W. G. Clarkson & Co.
Ft. Worth, Texas

*Contractor:* Harry B. Friedman
Ft. Worth, Texas

## SPECIFICATIONS FOR MODEL 10

Windows shall be of the Browne type as manufactured by Universal Corporation, Dallas, Texas.

**MATERIALS:** Window frames and sash shall be of extruded aluminum alloy of not less than 17,000 lbs. tensile strength per sq. inch to manufacturer's standard shapes.

**OPERATION:** Two sashes for each frame are mounted side by side, hinged together at their meeting edges by aluminum hinges and carried entirely without other support upon four hinged operating arms, securely fastened to center upright, two at bottom and two at top, pivotally attached to sash rails. Hinged operating arms to be drop forged steel with stainless steel pins and washers. Operating arms cadmium plated.

**CONSTRUCTION:** Windows are to be constructed according to manufacturer's standard shop practice and frames and sash are to be connected at corners so as to make a rigid, solid construction at these points, either by tenons or welding as connection requires. Incorporate in the construction all wool resilient, waterproofed felt cushions of the very best grade, securely attached and so placed that there shall be no metal to metal at the weathering contacts.

Glazing beads on all vertical members to be of the spring-on- type for inside glazing.

**HARDWARE:** Provide standard Browne hardware consisting of handle, with roller catch and concealed hold-fast hooks. Handle to be shipped loose and applied at job by erector of windows.

**FINISH:** The exposed surfaces of aluminum shall be cleaned and brought to even color free from scratches and surface blemishes. Before shipment from the factory windows shall be given a protective coating resistant to stain or discoloration. All portions of frame in contact with masonry shall be coated with bituminous paint.

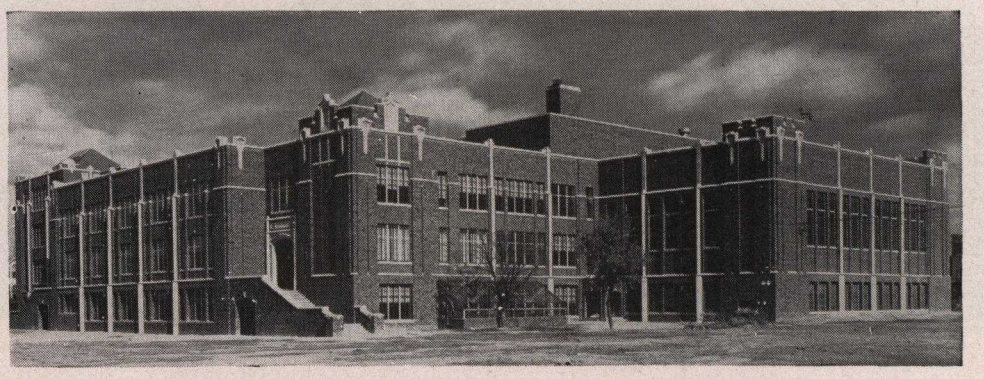
**ERECTION** is included under another contract. Window frames and sash to be erected in walls after openings are completed, firmly anchored in place, true, plumb and square, by experienced workman who shall also clean the protective coating from windows and apply hardware.

**GLAZING:** Glazing is included under another contract, and glazing compound used to set glass shall be suitable for aluminum windows.

**CAULKING:** Caulking is included under another contract. Material used to be non-staining and not to discolor the aluminum.

**AIR INFILTRATION:** The manufacturer shall furnish photostatic copies of a test made on a window identical in construction with windows being furnished under this specification, the test having been made by a recognized testing laboratory and showing that air infiltration did not exceed ½ cu. ft. per minute per foot of sash perimeter when the window was subjected to a static air pressure equivalent to the pressure exerted by wind at a velocity of 50 miles per hour. The size of the window tested shall be 4'0" wide by 6'0" high or have a perimeter equal thereto.

**SAMPLES:** The contractor shall furnish in triplicate a sworn certificate of conformance in place of samples for mechanical tests or chemical analysis.



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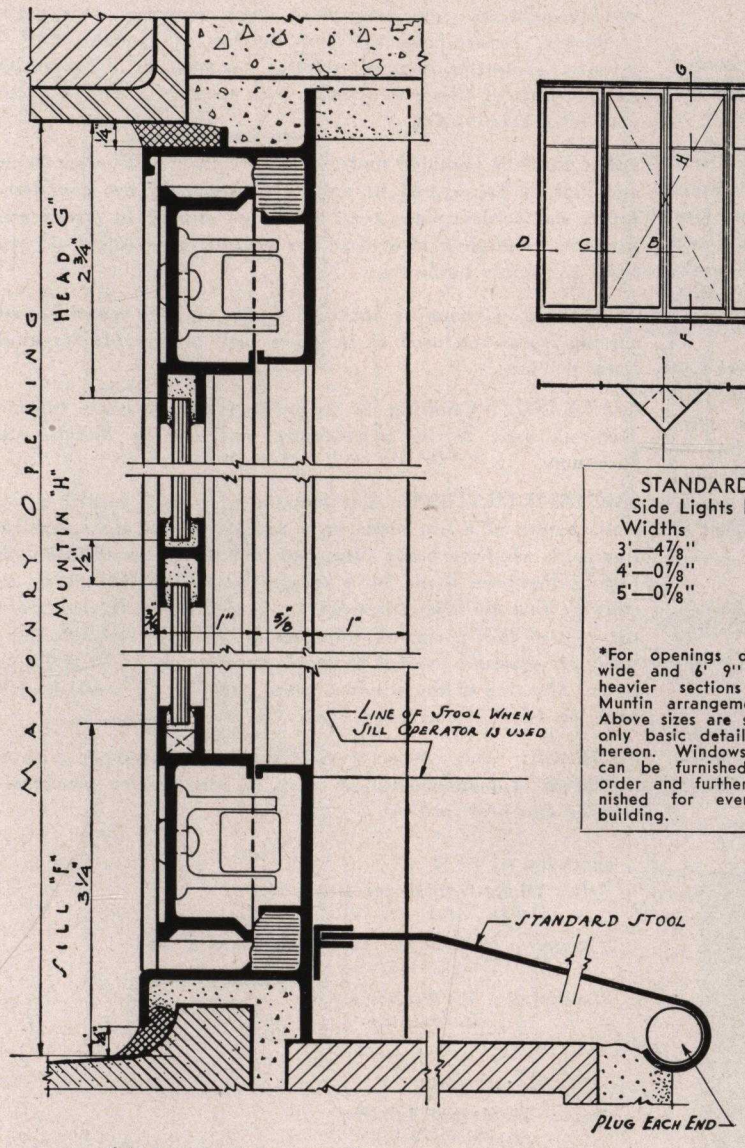
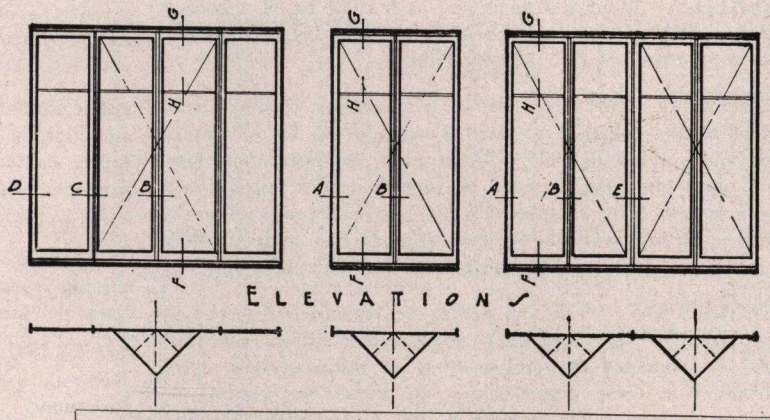
# BROWNE FOLDING TYPE
model 10 • sheet 1

Sedluxe WINDOWS

**EXTRUDED ALUMINUM, EXTRUDED BRONZE • Details shown are half-size • Specifications, page 10 • Full size drafting room standards, loose leaf, will be supplied promptly.**



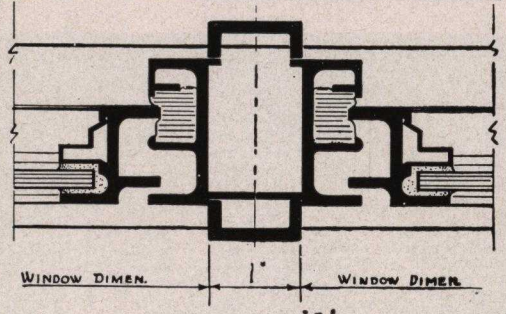

STANDARD SIZES
Side Lights Excluded

| Widths | Heights |
|---|---|
| 3'—4⅞" | 4'—1" |
| 4'—0⅞" | 5'—5" |
| 5'—0⅞" | 6'—9" |
| | *8'—1" |
| | *9'—5" |

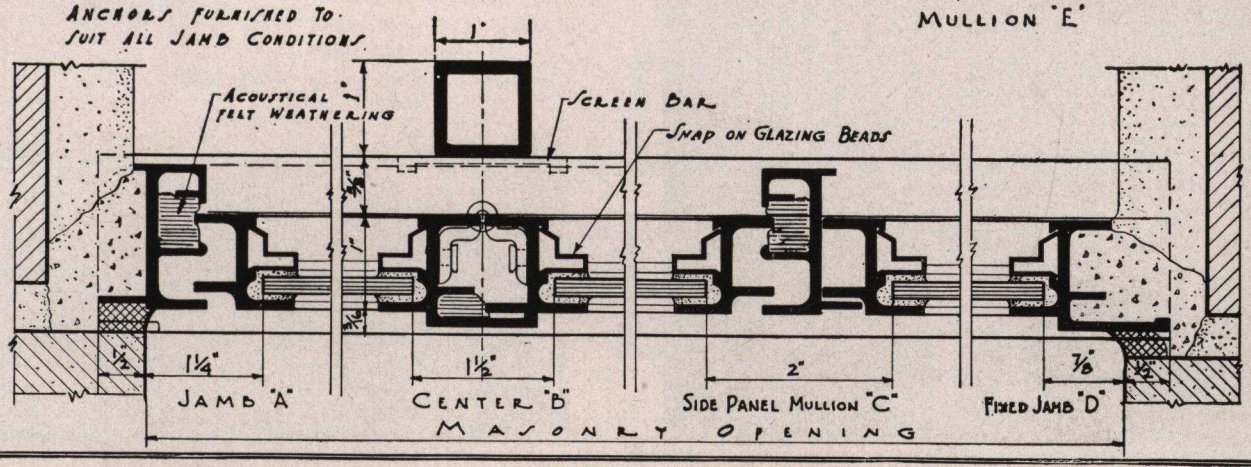
*For openings over 5' 0⅞" wide and 6' 9" high 22½% heavier sections are used. Muntin arrangement optional. Above sizes are standard and only basic details are shown hereon. Windows in any size can be furnished on special order and further details furnished for every type of building.

FEATURES: Dustproof • Noiseproof • Draftproof • Maximum Light and Vision • Permanent Ease of Operation • Both Sides of Glass Cleaned from Inside • Controllable Draft-free Flue Type Ventilation • Permanent Weather Cushions Forming Perfect Air Seal • Low Maintenance Cost and Savings in Heat and Air Conditioning.

Ask for supplemental information, catalogs and drafting room standards on: Hospital Windows, Screens, Metal Stools, Sill Operators, Metal Trim, Interior Thermo Sash, Exterior Thermo Shades and Integral Ventilating Sub-spandrels.




MULLION "E"



Sedluxe WINDOWS

# BROWNE FOLDING TYPE

## specifications for aluminum psychiatric windows model 15P

**(Note: For information about accessories for Model 15-P see panel on left hand side of page 10.**

Windows shall be of the Browne type as manufactured by Universal Corporation, Dallas, Texas.

**MATERIALS:** Window frames and sash shall be of extruded aluminum alloy of not less than 17,000 lbs. tensile strength per sq. inch to manufacturer's standard shapes.

**OPERATION:** Two sashes for each frame are mounted side by side, hinged together at their meeting edges by aluminum hinges and carried entirely without other support upon four hinged operating arms, securely fastened to center upright, two at bottom and two at top, pivotally attached to sash rails. Hinged operating arms to be drop forged steel with stainless steel pins and washers. Operating arms cadmium plated.

**CONSTRUCTION:** Windows are to be constructed according to manufacturer's standard shop practice and frames and sash are to be connected at corners so as to make a rigid, solid construction at these points, either by tenons or welding as connection requires. Incorporate in the construction all wool resilient, waterproofed felt cushions of the very best grade, securely attached and so placed that there shall be no metal to metal at the weathering contacts.

Psychiatric windows are arranged with muntins to take 6″ x 9″ glass, outside putty glazed. Fixed stops are provided to limit opening at jambs to 6″ or less as required, preventing escape of patients.

**HARDWARE:** Provided standard Browne screw type operator concealed under metal stool with crank and latch through center upright with lever handle. Crank or operator and lever handle arranged removeable when required by architect.

**FINISH:** The exposed surfaces of aluminum shall be cleaned and brought to even color free from scratches and surface blemishes. Before shipment from the factory windows shall be given a protective coating resistant to stain or discoloration. All portions of frame in contact with masonry shall be coated with bituminous paint.

**ERECTION** is included under another contract. Window frames and sash to be erected in walls after openings are completed, firmly anchored in place, true, plumb and square, by experienced workmen who shall also clean the protective coating from windows and apply hardware.

**GLAZING:** Glazing is included under another contract, and glazing compound used to set glass shall be suitable for aluminum windows.

**CAULKING:** Caulking is included under another contract. Material used to be non-staining and not to discolor the aluminum.

**AIR INFILTRATION:** The manufacturer shall furnish photostatic copies of a test made on a window identical in construction with windows being furnished under this specification, the test having been made by a recognized testing laboratory and showing that air infiltration did not exceed ½ cu. ft. per minute per foot of sash perimeter when the window was subjected to a static air pressure exerted by wind at a velocity of 50 miles per hour. The size of the window tested shall be 4′0″ wide by 6′0″ high or have a perimeter equal thereto.

**SAMPLES:** The contractor shall furnish in triplicate a sworn certificate of conformance in place of samples for mechanical tests or chemical analysis.

*Left:* **Titche-Goettinger Dept. Store**
Dallas, Texas

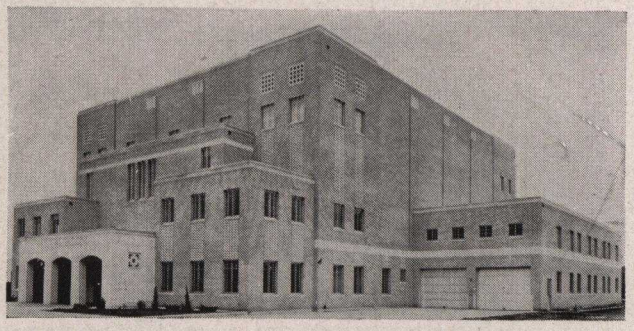
*Architect:* Herbert M. Greene, La Roche & Dahl
Dallas, Texas

*Contractors:* The Watson Co.
Dallas, Texas

*Below:* **Municipal Building**
Greenville, Texas

*Architect:* W. M. Ragsdale
Greenville, Texas

*Contractor:* E. C. Kert—Fair Const. Co.
Greenville, Texas



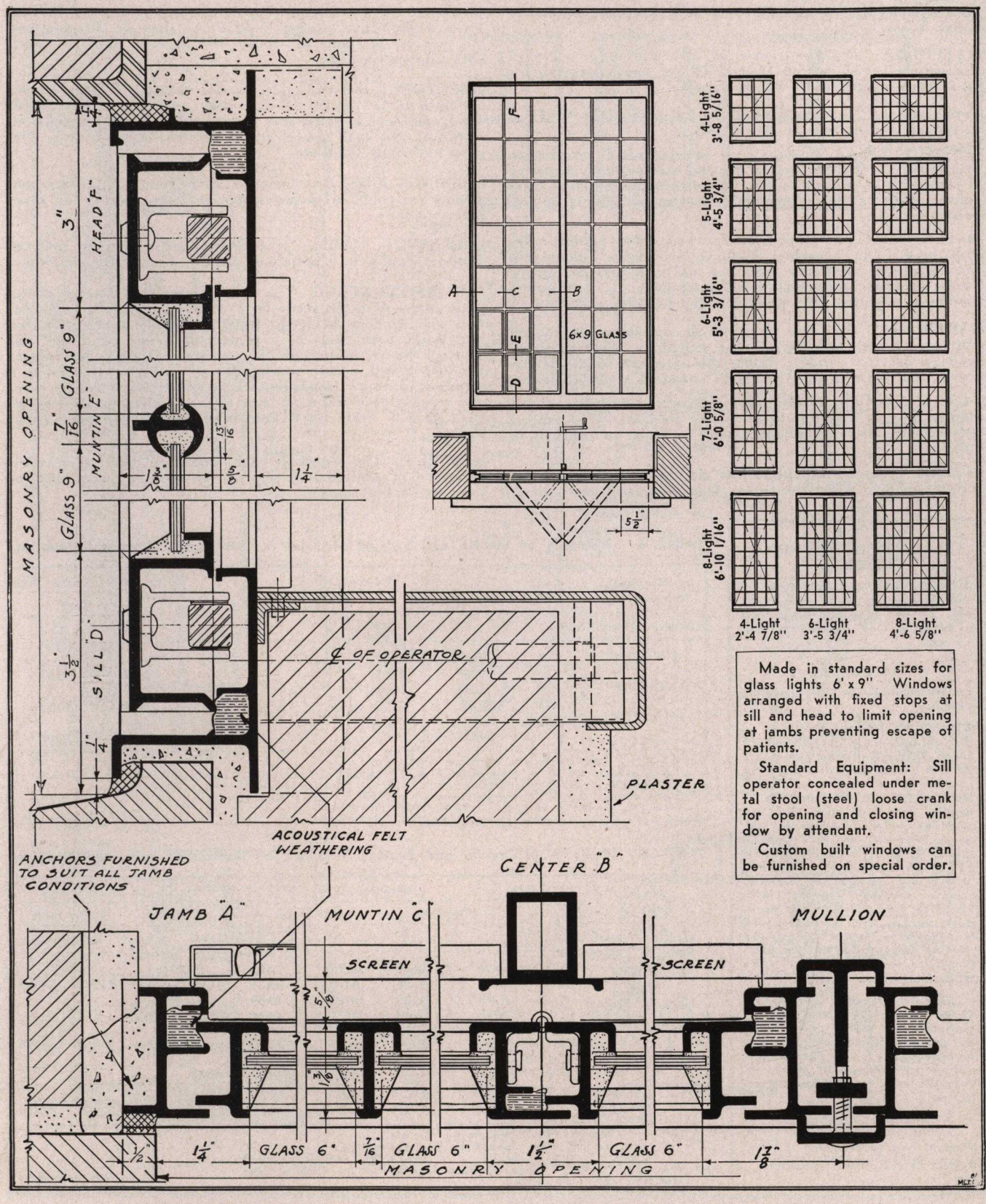
***Better values in better windows for better buildings***

# BROWNE FOLDING TYPE

psychiatric • model 15P • sheet 3

Sedluxe WINDOWS

**EXTRUDED ALUMINUM, EXTRUDED BRONZE • Details shown are half-size • Specifications, page 12 • Full size drafting room standards, loose leaf, will be supplied promptly.**




Made in standard sizes for glass lights 6' x 9" Windows arranged with fixed stops at sill and head to limit opening at jambs preventing escape of patients.

Standard Equipment: Sill operator concealed under metal stool (steel) loose crank for opening and closing window by attendant.

Custom built windows can be furnished on special order.

**Universal Corporation, 6710 Denton Drive, Dallas 9, Texas**

Sealuxe WINDOWS

# DOUBLE HUNG

specifications for aluminum windows • model 30

Double hung type as manufactured by Universal Corporation, Dallas, Texas.

**MATERIALS:** Window frames and sash shall be of extruded aluminum alloy of not less than 17,000 lbs. tensile strength per sq. inch, to manufacturer's standard shapes.

Frame and sash members shall not be less than .063 in thickness except sill which shall be .09 in thickness.

**CONSTRUCTION:** Windows shall be constructed according to manufacturer's shop practice—frame and sash are to be connected at corners so as to make a rigid water tight connection at these points, either by tenons, welding or mechanical joining, as connection requires.

Jambs mounted with adjustable and removable parting strips with beaded fin engaging felt-lined, acoustical weather-strip channel incorporated into sash, with no metal-to-metal contact. Allows accurate adjustment to close tolerance, for rattle-proof, wind-proof closure—with quite, smooth, finger-tip operation.

**HARDWARE:** On lower sash, furnish continuous lift integral with sash. Upper sash, furnish two pull down handles (on all windows over 3'0" wide). Under this size, one handle is furnished. Hardware to be "Universal's" standard of simple design.

**SASH BALANCES:** Each sash to have two balances of the tubular type to hold sash open in any position. Where spring type balances are required, they shall be equal to Caldwell or Pullman.

**FINISH:** The exposed surfaces of aluminum shall be cleaned and brought to even color free from scratches and surface blemishes. Before shipment from the factory windows shall be given a protective coating resistant to stain or discoloration. All portions of frame in contact with masonry shall be coated with bituminous paint.

**ERECTION** is included under another contract. Window frames and sash to be erected in walls after openings are completed, firmly anchored in place, true, plumb and square, by experienced workman who shall also clean the protective coating from windows and apply hardware.

**GLAZING:** Glazing is included under another contract, and glazing compound used to set glass shall be suitable for aluminum windows.

**CAULKING:** Caulking is included under another contract. Material used to be non-staining and not discolor the aluminum.

**AIR INFILTRATION:** The manufacturer shall furnish photostatic copies of a test made on a window identical in construction with windows being furnished under this specification, the test having been made by a recognized testing laboratory and showing that air infiltration did not exceed ½ cu. ft. per minute per foot of sash perimeter when the window was subjected to a static air pressure equivalent to the pressure exerted by wind at a velocity of 50 miles per hour. The size of the window tested shall be 4'0" wide by 6'0" high or have a perimeter equal thereto.

**SAMPLES:** The contractor shall furnish in triplicate a sworn certificate of conformance in place of samples for mechanical tests or chemical analysis.

### SEALUXE DOUBLE HUNG WINDOWS

Drafting Room Standards, Sheet 6, show that on all openings over 4'0" wide by 6'0" high, the construction is reinforced and heavier extrusions are used.

#### ACCESSORIES

Specify carefully the items desired, such as:

SCREENS—Outside top hinged or inside roll-up-type; INTERIOR THERMO SASH, EXTERIOR THERMO SHADES, OR VENETIAN BLINDS — where air conditioning is required; STOOLS—Metal or Extruded Aluminum, can be supplied on special order; SEALUXE SPANDRELS—Rolled Aluminum, can be furnished with air intake vents for ventilating air conditioning systems; SEALUXE EXTERIOR THERMO SHADES can be furnished with mechanical operation controlled from the inside; MULLIONS—Where two or more windows are to be installed in a single wall opening, provision shall be made to assemble the abutting frame members into a structurally satisfactory vertical mullion.

#### EXTERIOR TRIM AND SPANDRELS

Should be furnished, erected, and caulked by the window manufacturer, his authorized representative, or by workmen skilled in this type of work and in accordance with written instructions issued by the window manufacturer.

#### ALUMILITING

Windows may be alumilited in either a satin finish or a polish finish.

**TABLE A Moments of Inertia and Section Modulus for Horizontal Rails and Muntins.**

| Nominal Window Sizes | Axis | Horizontal Rails | | | | Horizontal Muntin Bars | |
|---|---|---|---|---|---|---|---|
| | | Lift Rail | | All Others | | 1 Per Sash | |
| Width Height | | I | S | I | S | I | S |
| 3'4" x 5'4" | X-X | .0647 | .0600 | .0401 | .0685 | ..... | ..... |
| | Y-Y | .0747 | .0705 | .0471 | .0836 | .0078 | .0157 |
| 3'4" x 6'0" | X-X | .0647 | .0600 | .0401 | .0685 | ..... | ..... |
| | Y-Y | .0747 | .0705 | .0471 | .0836 | .0078 | .0157 |
| 4'0" x 6'0" | X-X | .0647 | .0600 | .0401 | .0685 | ..... | ..... |
| | Y-Y | .0747 | .0705 | .0471 | .0836 | .0095* | .0206* |

X-X Axis is perpendicular to the plane of the glass.
Y-Y Axis is parallel to the plane of the glass and vertical.
I = Moment of Inertia in inches$^4$. S = Section Modulus in inches$^3$.
The width and height dimensions shown are nominal for single windows.
*Indicates reinforced sections.

**TABLE B Moments of Inertia and Section Modulus for Horizontal Rails and Muntins.**

| Nominal Window Sizes | Axis | Horizontal Rails | | | | Horizontal Muntin Bars | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Lift Rail | | All Others | | 1 Per Sash | | 2 Per Sash | |
| Width Height | | I | S | I | S | I | S | I | S |
| 4'0" x 10'0" | X-X | .0705* | .0635* | .0675* | .0685 | ..... | ..... | ..... | ..... |
| | Y-Y | .0747 | .0705 | .0471 | .0836 | .0170* | .0483* | .0170* | .0483* |
| 4'6" x 7'6" | X-X | .0705* | .0635* | .0675* | .0685 | ..... | ..... | ..... | ..... |
| | Y-Y | .0747 | .0705 | .0471 | .0836 | .0170* | .0483* | ..... | ..... |
| 4'6" x 10'0" | X-X | .1172* | .0950* | .1122* | .0995* | ..... | ..... | ..... | ..... |
| | Y-Y | .0747 | .0950* | .0747* | .0995* | .0270* | .0825* | .0270* | .0825* |
| 5'0" x 7'6" | X-X | .1172* | .0950* | .1122* | .0995* | ..... | ..... | ..... | ..... |
| | Y-Y | .0747 | .0950* | .0747* | .0995* | .0270* | .0825* | ..... | ..... |
| 5'0" x 10'0" | X-X | .1172* | .0950* | .1122* | .0995* | ..... | ..... | ..... | ..... |
| | Y-Y | .0747 | .0950* | .0747* | .0995* | .0270* | .0825* | .0270* | .0825* |

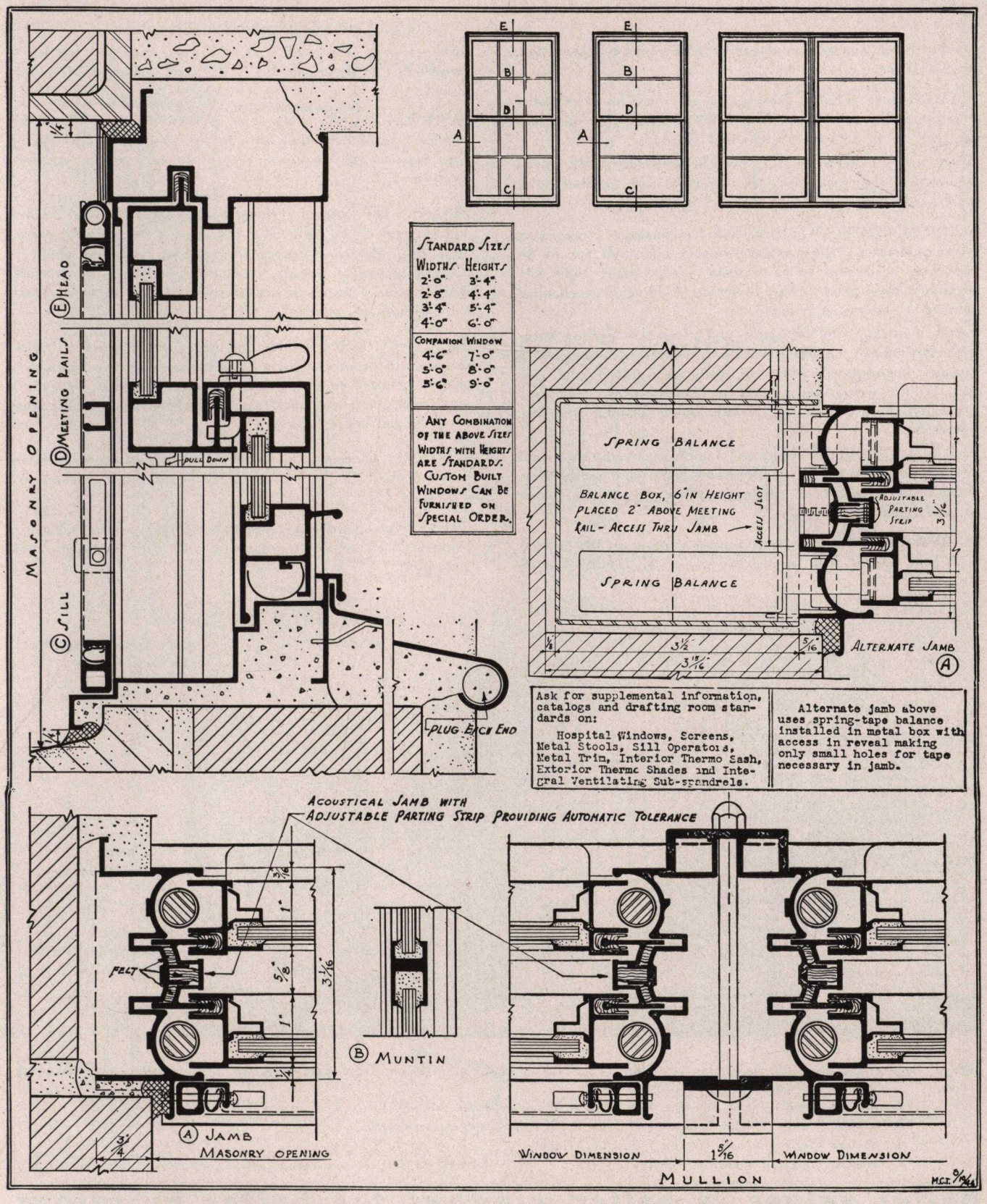
X-X Axis is perpendicular to the plane of the glass.
Y-Y Axis is parallel to the plane of the glass and vertical.
I = Moment of Inertia in inches$^4$. S = Section Modulus in inches$^3$.
The width and height dimensions shown are nominal for single windows.
*Indicates reinforced sections.

***Better values in better windows for better buildings***

# DOUBLE HUNG
model 30 • sheet 6

Sedluxe WINDOWS

**EXTRUDED ALUMINUM, EXTRUDED BRONZE • Details shown are half-size • Specifications, page 14 • Full size drafting room standards, loose leaf, will be supplied promptly.**




**Universal Corporation, 6710 Denton Drive, Dallas 9, Texas**

Sealuxe WINDOWS

# DOUBLE HUNG

## specifications for aluminum windows • model 31

Double hung type as manufactured by Universal Corporation, Dallas, Texas.

**MATERIALS:** Window frames and sash shall be of extruded aluminum alloy of not less than 17,000 lbs. tensile strength per sq. inch, to manufacturer's standard shapes.

Thickness of material in jambs and head members .063, in sill .09, vertical sash members .063, horizontal sash members .078, all hinged frames .063.

**CONSTRUCTION:** Windows shall be constructed according to manufacturer's shop practice—frame and sash are to be connected at corners so as to make a rigid water tight connection at these points, either by tenons, welding, or mechanical joining as connection requires.

Jambs mounted with adjustable and removable parting strips with beaded fin engaging felt-lined, acoustical weather-strip channel incorporated into sash, with no metal-to-metal contact. Allows accurate adjustment to close tolerance, for rattle-proof, wind-proof closure — with quiet, smooth, finger-tip operation.

Sash to be arranged with hinged inswinging frames arranged so that all glass can be cleaned from room side of building, doing away with outside window washing. Inswinging frames to have felt inserts.

**HARDWARE:** On lower sash, furnish continuous lift integral with sash. Upper sash, furnish two pull down handles (on all windows over 3'0" wide). Under this size, one handle is furnished. Hardware to be "Universal" standard of simple design.

**SASH BALANCES:** Each sash to have two balances of the tubular type to hold sash open in any position. Where spring type balances are required, they shall be equal to Caldwell or Pullman.

**FINISH:** The exposed surfaces of aluminum shall be cleaned and brought to an even color free from scratches and surface blemishes. Before shipment from factory, windows shall be given a protective coating, resistant to stain or discoloration. All portions of frame in contact with masonry shall be coated with bituminous paint.

**ERECTION:** Included under another contract. Window frames and sash to be erected in walls after openings are completed, firmly anchored in place, true, plumb and square by experienced workmen, who shall also clean protective coating from windows and apply hardware.

**GLAZING:** Glazing is included under another contract. Glazing compound used to set glass shall be suitable for aluminum windows.

**CAULKING:** Caulking is included under another contract. Material used to be non-staining and not to discolor the aluminum.

**U. S. Naval Hospital**
Houston, Texas

*Architects:*
Finn, Cummins & Taylor
Houston, Texas

*Contractor:*
James Stewart Corp.
Houston, Texas

*Officer in Charge of Construction:*
Comdr. L. F. Southerland

One of the Nations latest and finest structures, the U. S. Naval Hospital at Houston, Texas, uses SEALUXE windows and doors, including:

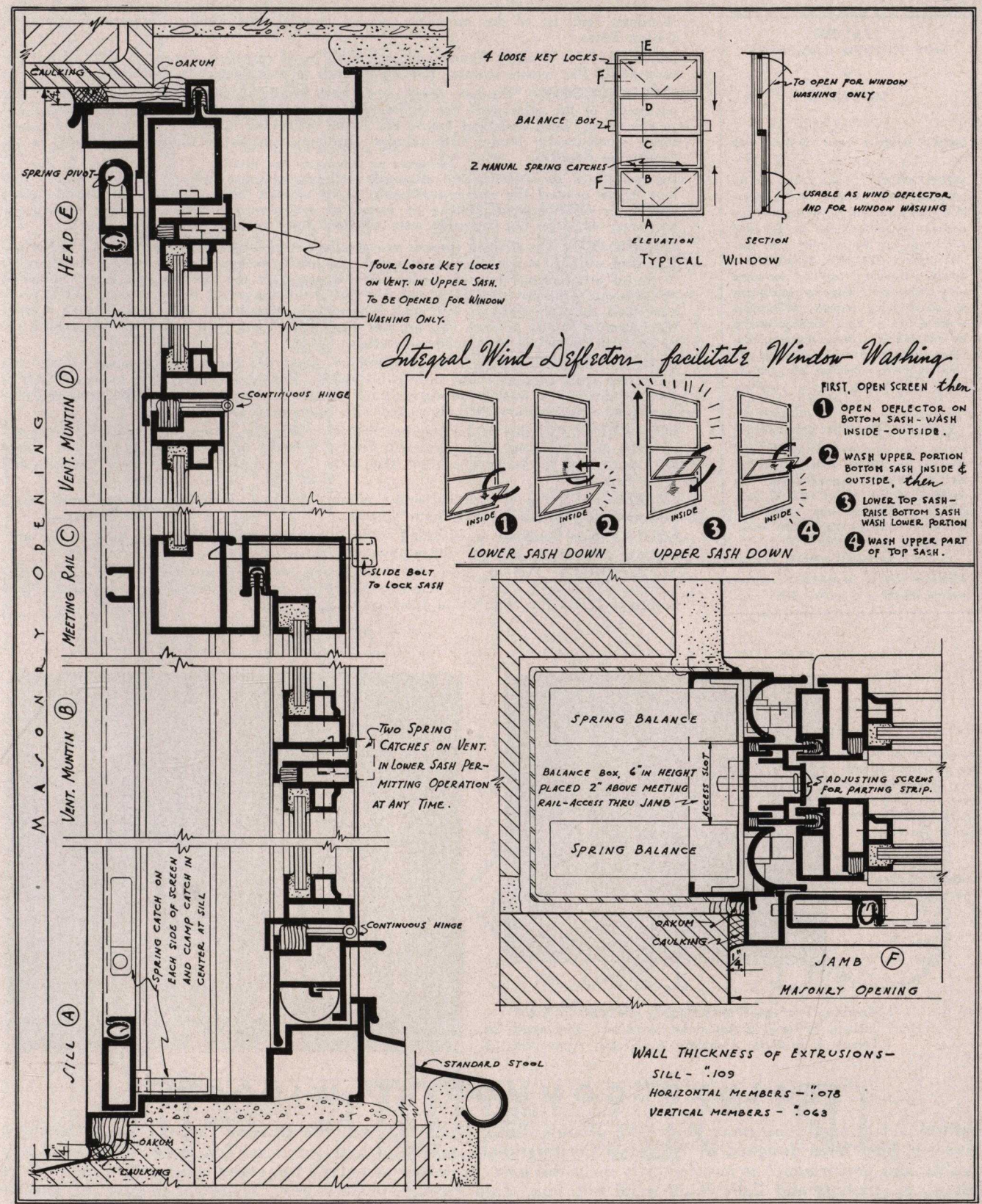
1. Browne Folding Type Window, Model 10
2. Sealuxe Double Hung Window with Integral Wind Deflector, Model 31
3. Sealuxe Heavy Weight Type A and Type B Six Point Contact Casements
4. Sealuxe Horizontal and Pivoted Industrial Window
5. Sealuxe Projected Industrial Window

***Better values in better windows for better buildings***

# DOUBLE HUNG
model 31 • sheet 6a

Sedluxe WINDOWS

**EXTRUDED ALUMINUM, EXTRUDED BRONZE • Details shown are half-size • Specifications, page 16 • Full size drafting room standards, loose leaf, will be supplied promptly.**




**Universal Corporation, 6710 Denton Drive, Dallas 9, Texas**

Sealuxe WINDOWS

# SIDE-HINGED CASEMENT

## specifications for models 40 and 41

**SEALUXE**
**SIDE HINGED CASEMENT**

•

**MODEL 40**

ACCESSORIES

Specify carefully items desired, such as:

MECHANICAL OPERATORS — for openings out of reach of the floor; SCREENS—attached to ventilator where desired; STOOLS—Metal or Extruded Aluminum, can be supplied upon special order; SEALUXE SPANDRELS—Rolled Aluminum, can be furnished with air intake vents for ventilating air conditioning systems; MULLIONS—where two or more windows are to be installed in a single opening, provision shall be made to assemble the abutting frame members into a structurally satisfactory vertical mullion.

•

EXTERIOR TRIM AND SPANDRELS

Should be furnished, erected, and caulked by window manufacturer or his authorized representative, or workmen skilled in this type of work and in accordance with written instructions issued by the window manufacturer.

ALUMILITING

Windows may be alumilited in either a satin finish or a polish finish.

Windows shall be of the casement type as manufactured by the Universal Corporation, Dallas, Texas.

**MATERIALS:** Window frames and sash shall be of extruded aluminum alloy of not less than 17,000 lbs. tensile strength per square inch to manufacturer's standard shapes.

**CONSTRUCTION:** Window frames and sash shall be of tubular construction. The perimeter of the tube shall not be less than three inches, and walls not less than 1/16" in thickness. Both sash and frame are to be connected at corners with suitable corner block mechanically joined with tubular members, brazed, or welded into place, as the connection requires.

Incorporate in the construction all wool, resilient, waterproofed felt cushions of the very best grade around the entire perimeter of the frame. Sash arranged for outside putty glazing or outside metal glazing by means of spring-on metal glazing beads around the perimeter of sash. (In ordering, state whether putty or metal glazing is wanted.)

**HARDWARE:** On all sash furnish two stainless steel hinges three inches long with stainless steel washers at knuckles as standard equipment, or flat type hinges, to meet requirements of installation. Furnish under-screen operator of the internal gear type, controlled at sill level, to permit opening of sash without disturbing screen or storm sash. An entirely concealed auxiliary vertical slide latch is provided, operating at still level, in such manner that venetian blinds, screens, etc., are not disturbed. When twin ventilators occur both are to be securely locked by a single operation.

**FINISH:** The exposed surfaces of aluminum shall be cleaned and brought to an even color free from scratches and surface blemishes. Before shipment from factory, windows shall be given a protective coating resistant to stain or discoloration. All portions of frame in contact with masonry shall be coated with bituminous paint.

**ERECTION:** Included under another contract. Window frames and sash to be erected in walls after openings are completed, firmly anchored in place, true, plumb and square by experienced workmen who shall also clean the protective coating from windows and apply hardware.

**GLAZING:** Glazing is included under another contract. Glazing compound used to set glass shall be suitable for aluminum windows.

**CAULKING:** Caulking is included under another contract. Material used to be non-staining and not to discolor the aluminum.

**ACCESSORIES:** Screens, Storm Sash, Stools and Inside or Outside Trim. We also make heavier, side-hinged Casement Window Model 41, for institutional or monumental type buildings. Send for details and specifications.

Installation of a Sealuxe extruded aluminum accordion type door at San Jose Ranch, St. Josephs Island, Texas.

*Owner:*
Sid W. Richardson
Fort Worth, Texas

*Architect:*
O'Neil Ford
Dallas, Texas

**Rapides Parish—Court House, Alexandria, La.**
Edward F. Neild & Associates, Architect, Shreveport, La.
Barron & Roberts, Associate Architects, Alexandria, La.

## SEALUXE COMMODITY WINDOWS

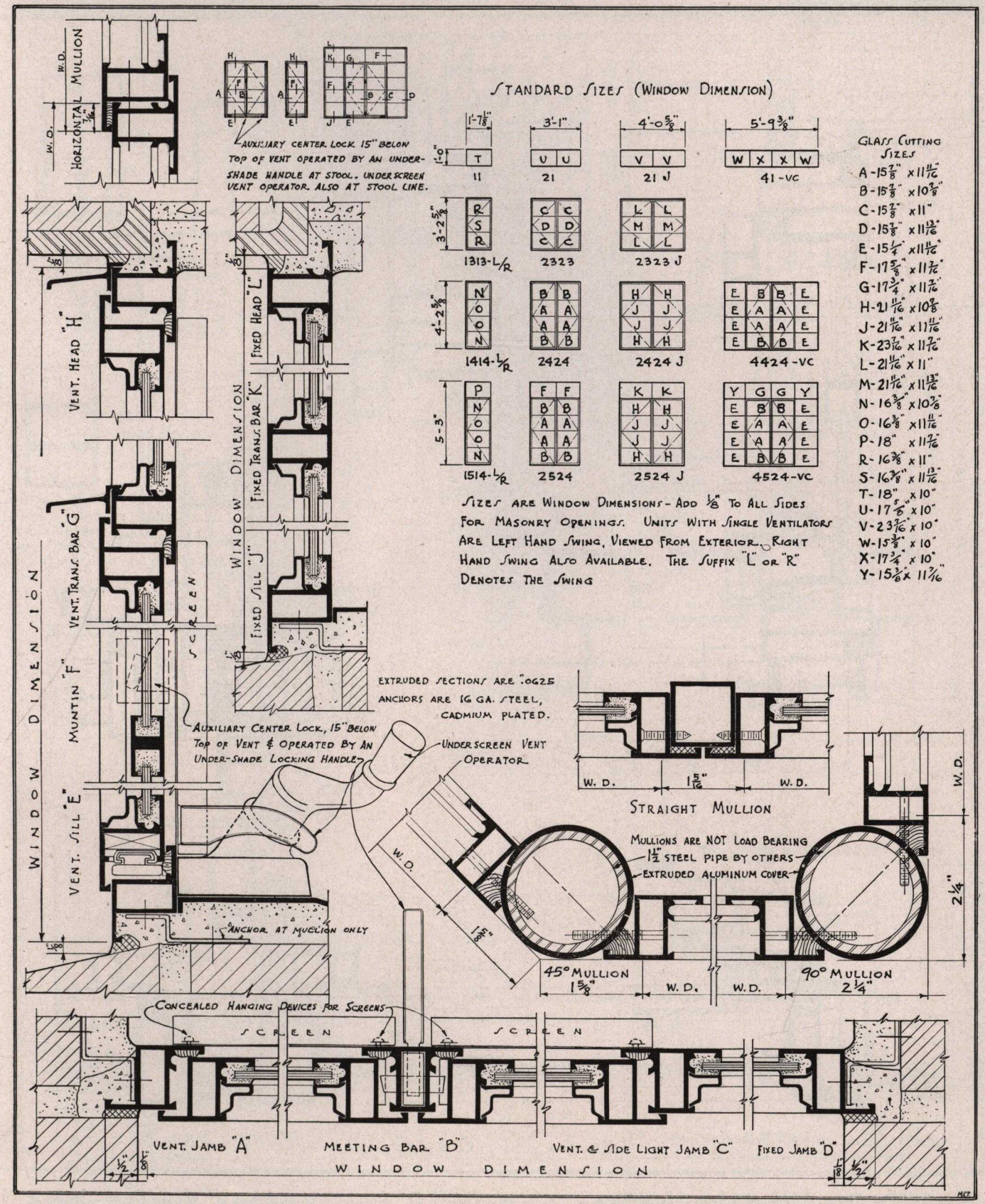
Sealuxe side-hinged Casement Model 40, Double Hung Model 32, and the Browne Folding Type Casement Model 9, have been designed by Universal Corporation to meet the long felt need for metal windows of top quality and performance to satisfactorily meet the many promises of today's improved construction methods in homes, apartments and light commercial building. Sold through dealers only. Write for details and specifications.

***Better values in better windows for better buildings***

# SIDE-HINGED-CASEMENT
## model 40 • sheet 7

Sedluxe WINDOWS

**EXTRUDED ALUMINUM, EXTRUDED BRONZE • Details shown are half-size • Specifications, page 18 • Full size drafting room standards, loose leaf, will be supplied promptly.**



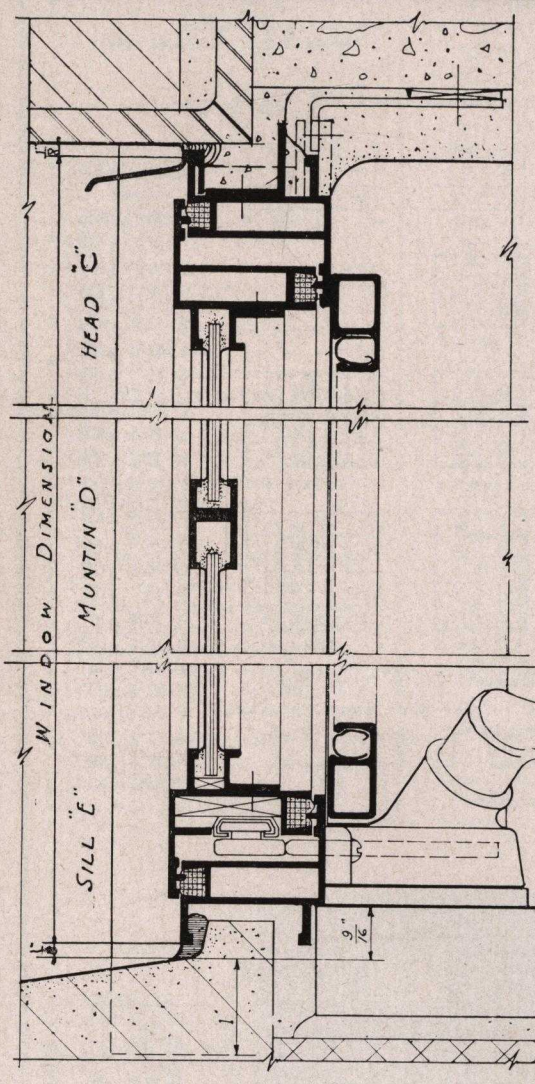

**Universal Corporation, 6710 Denton Drive, Dallas 9, Texas**

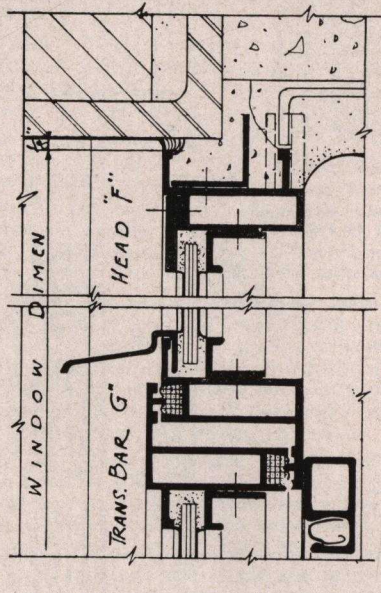
Sedluxe WINDOWS

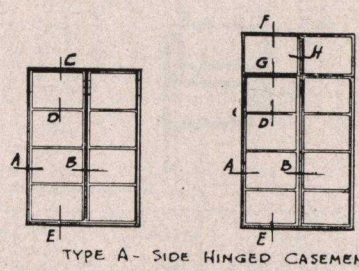
# SIDE HINGED CASEMENT WINDOW

model 41 • sheet 7a

**EXTRUDED ALUMINUM • Details shown are half-size • Full size drafting room standards, loose leaf, and specifications will be supplied promptly.**



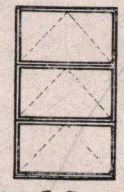



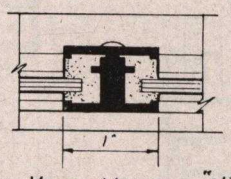

TYPE A- SIDE HINGED CASEMENT

STANDARD SIZES

| WIDTHS | HEIGHTS |
|---|---|
| 1'-7 1/8" | 2'-2" |
| 2'-7 3/8" | 3'-2 5/8" |
| 3'-1" | 4'-2 5/8" |
| 4'-5 1/8" | 5'-3" |
| | 6'-9" |

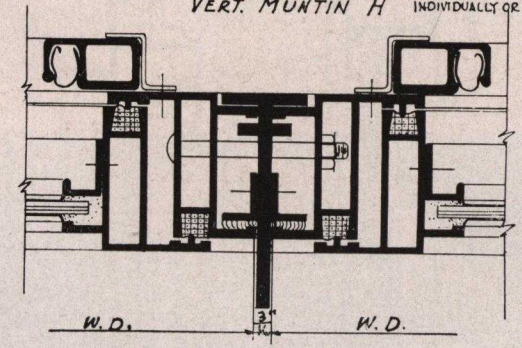
CUSTOM BUILT IN OTHER SIZES



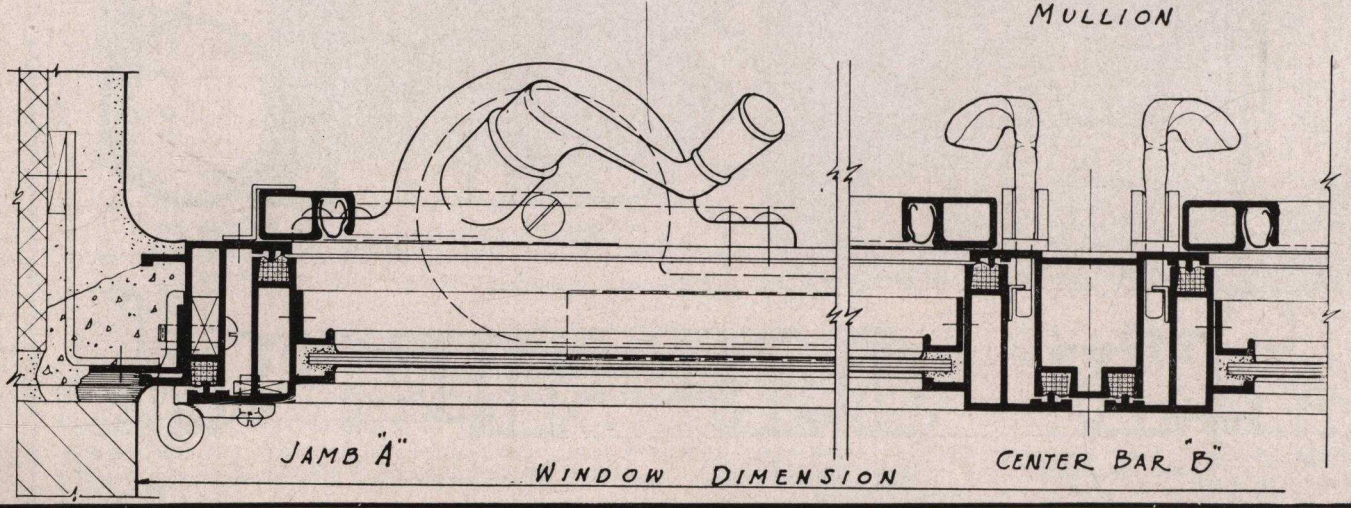



VERT. MUNTIN "H"

TYPE B-TOP HUNG
MAXIMUM WIDTH 5FT.
NO STANDARD SIZES
MECHANICALLY OPERATED
INDIVIDUALLY OR IN GROUPS




MULLION

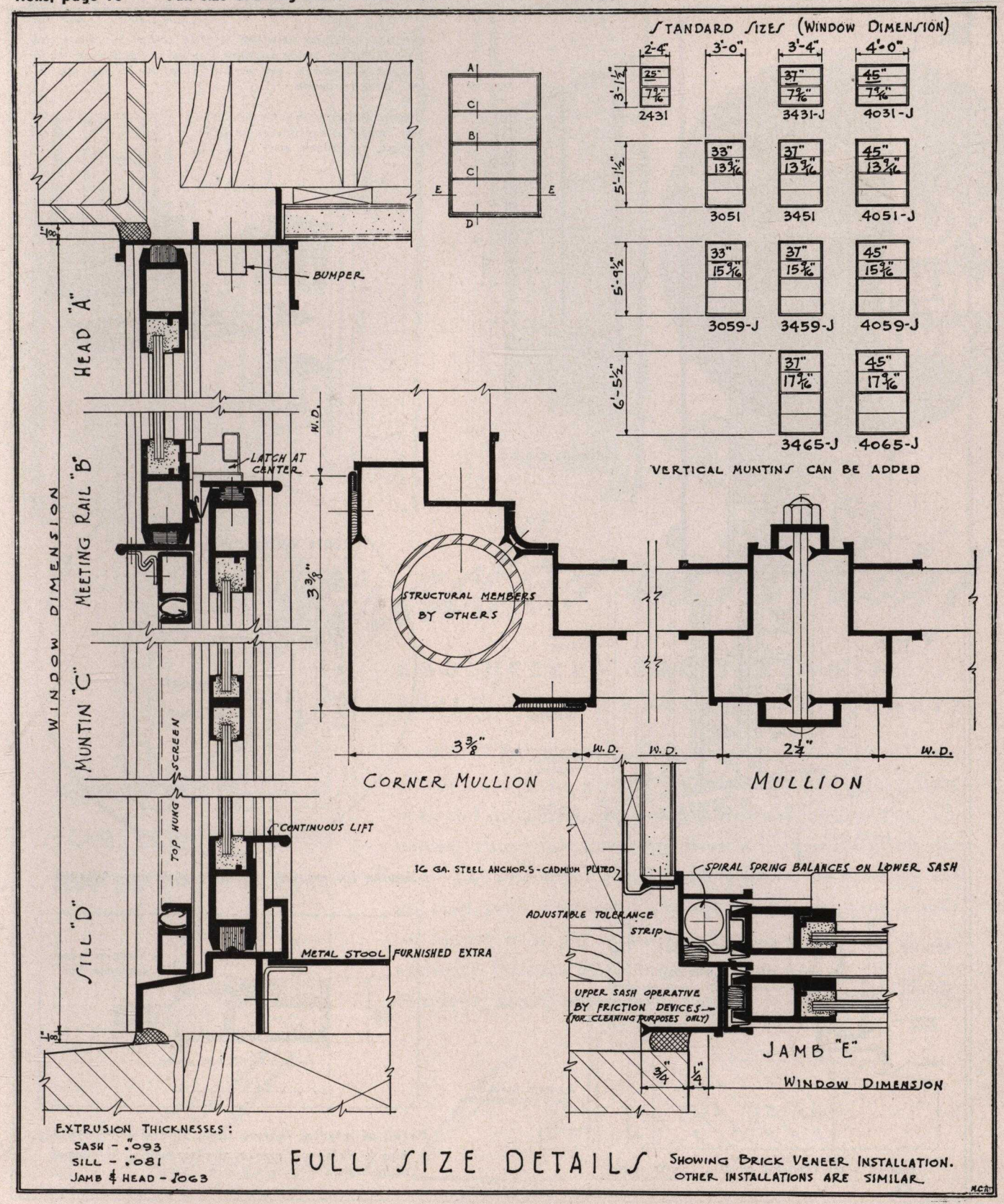



***Better values in better windows for better buildings***

# DOUBLE HUNG
model 32 • sheet 6b

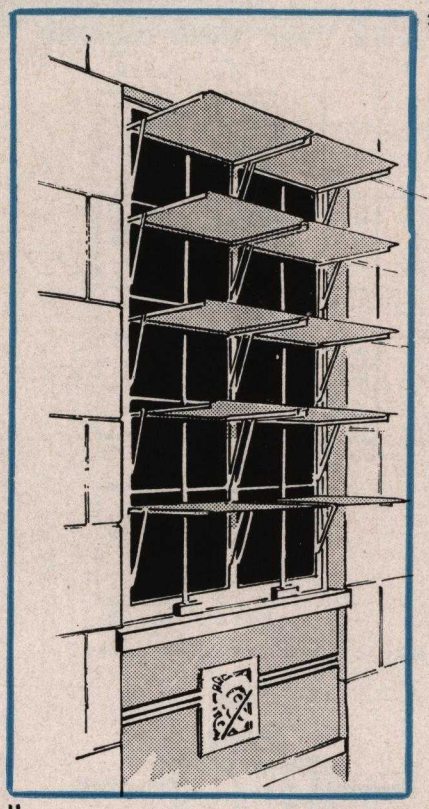
Sedluxe WINDOWS

**EXTRUDED ALUMINUM, EXTRUDED BRONZE • Details shown are half-size • Specifications, page 16 • Full size drafting room standards, loose leaf, will be supplied promptly.**

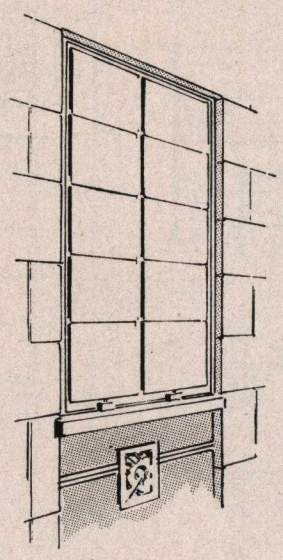



**Universal Corporation, 6710 Denton Drive, Dallas 9, Texas**

# HARDWARE • ACCESSORIES
## Browne Folding Type Windows



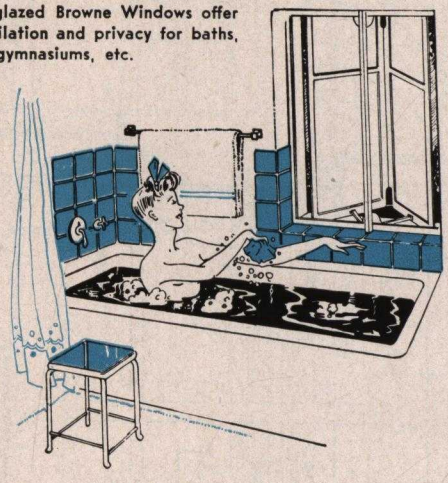
Shades open

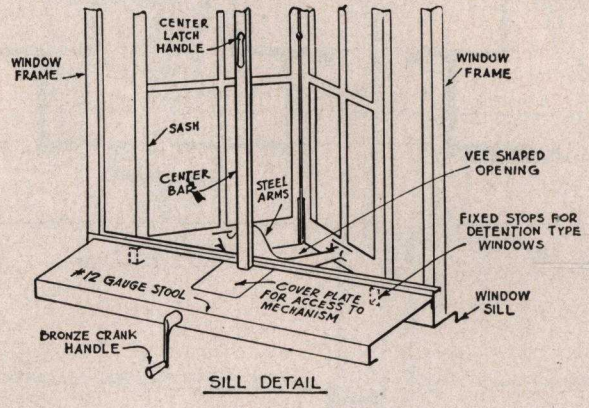


Shades closed

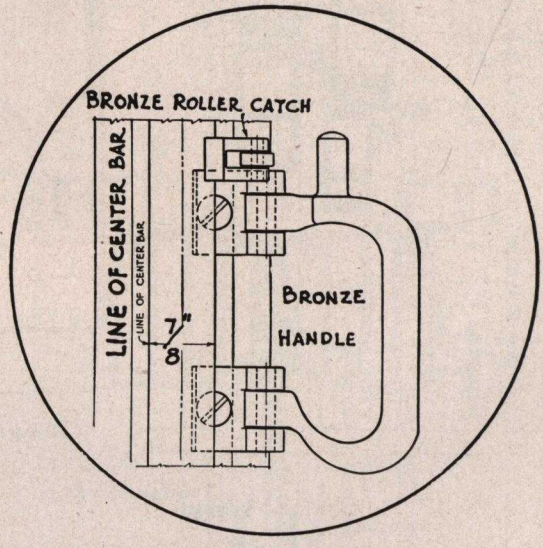
SEALUXE EXTERIOR THERMO SHADES control Sun Glare and Heat Radiation. Inside operation (manual or mechanical) makes it quick and easy to get sections in position to shut out the sun. Write for details.

Opaque glazed Browne Windows offer both ventilation and privacy for baths, showers, gymnasiums, etc.

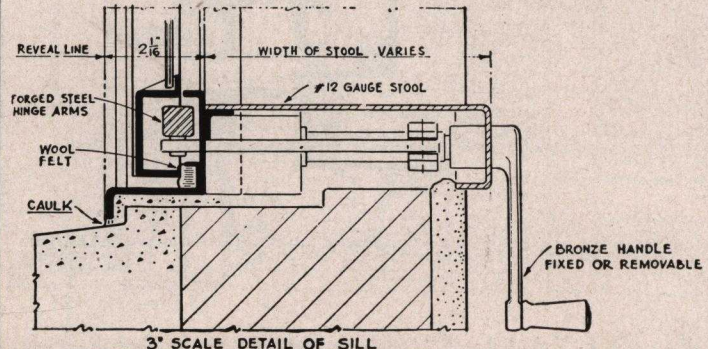




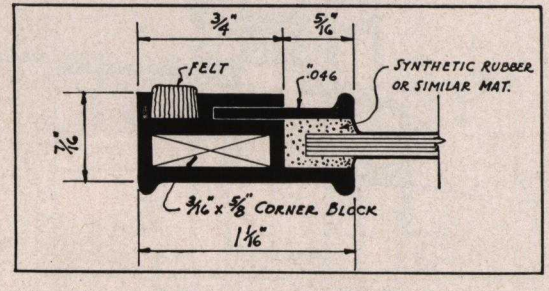

SILL DETAIL




**Handle for manual operation of Browne Window.**



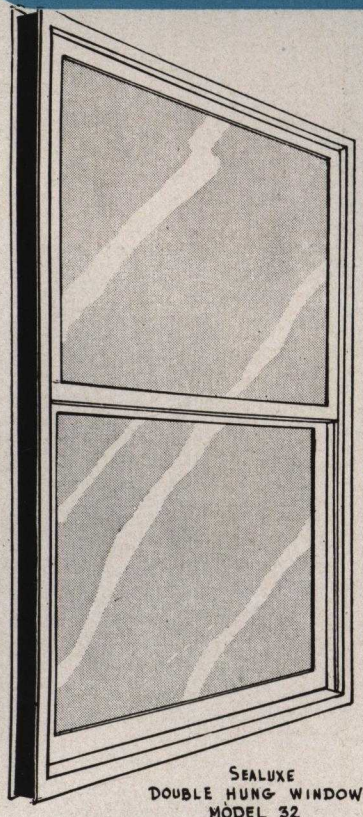

3" SCALE DETAIL OF SILL
SHOWING SCREW OPERATOR CONCEALED UNDER STOOL



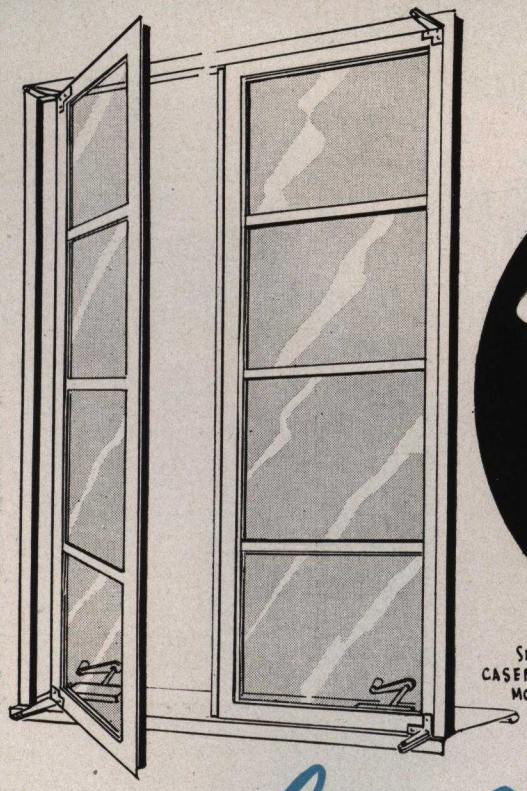

**Detail of interior thermo sash; hinged or removable.**
Also is detail of interior non-removable side-hinged storm sash.

***Better values in better windows for better buildings***

# Windows of Tomorrow NOW!



SEALUXE
DOUBLE HUNG WINDOW
MODEL 32



SEALUXE
CASEMENT WINDOW
MODEL 40

**Sealuxe**
**ALUMINUM WINDOWS**

## Miracles in Metals!

**ENGINEERED FOR STRENGTH . . .**
**BUILT FOR EVERLASTING BEAUTY**

NAME OF OUR DEALER IN YOUR VICINITY WILL BE SUPPLIED UPON REQUEST

Sealuxe Windows are precision manufactured of extruded aluminum sections, gaining the advantages of accuracy, lightness, and strength so successful in airplane construction. The natural aluminum surface is given a permanent finish that glows like fine silver or platinum, requires no painting, will not chip, peel or tarnish. Complete weather stripping is built-in, cannot wear out or loosen. Precision construction and exclusive features allow finger-tip operation of all Sealuxe Windows, assure permanent satisfaction and lasting beauty.

Universal

6710 DENTON DRIVE
DALLAS • TEXAS

CORPORATION

Sealuxe

# MIRACLES IN METAL

MANUFACTURERS — Use our modern metal finishes on your products.

We have adequate facilities in our modern metal finishing plant to provide other manufacturers with expert metal finishing on their products.

Not only are you benefited by the most modern facilities in the Southwest; but by the same skilled craftsmen who finish Sealuxe products.

Our modern METAL FINISHING Plant offers SPECIAL DELIVERY on:

- Alumilite (plain or colored)
- Cadmium
- Zinc
- Anodize
- Parkerize
- Cronak
- Oxide Finishes
- Paint
- Sand Blast
- Copper Braze

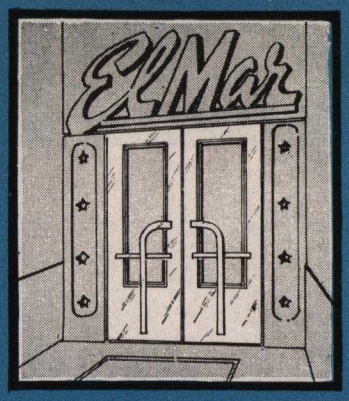
UNIVERSAL'S modern machinery and skilled craftsmen insure a better metal finish on your product.

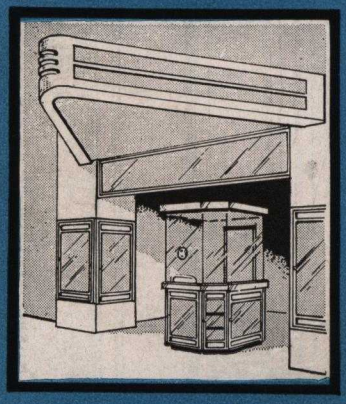
Write for any special information.

Sealuxe

## DOORS AND ENTRANCES

For those seeking doors and entrances of distinctive design and of practical quality.



Sealuxe

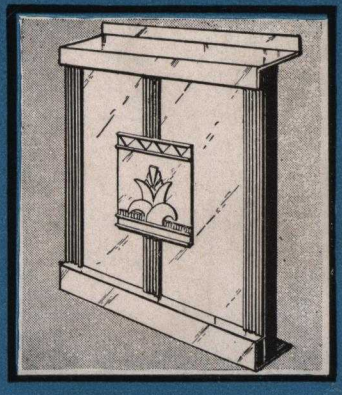
## THEATRE DISPLAY SYSTEMS THEATRE FRONTS DESIGNED AND FABRICATED:

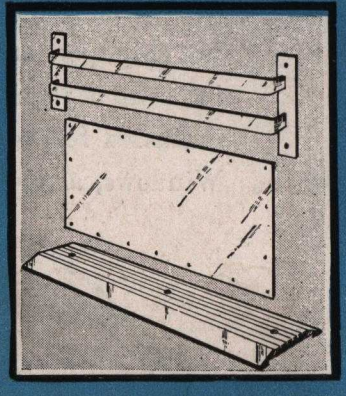
Poster and photo frames, lobby posts, ticket booths, marquee facias, entrance doors, ornamental metal trim . . . of durable extruded aluminum. Modern as tomorrow, lasting; virtually maintenance-tree. Write for catalogs.

Sealuxe

## ARCHITECTURAL METALS

Our Department of Design will assist in working out special designs in spandrels, elevator doors, stair rails, etc., in any combination of extruded, cast and/or rolled non-ferrous metals.





Sealuxe

## CUSTOM BUILT ACCESSORIES

Push and pull bars, thresholds, kick plates and many other accessories of aluminum and bronze.

Universal CORPORATION

6710 Denton Drive
Dallas 9, Texas